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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,193	09/04/2001	Hideaki Yamanaka	110538	1200
25944 75	90 11/06/2003	·	EXAMINER	
OLIFF & BERRIDGE, PLC		RICKMAN, HOLLY C		
P.O. BOX 1992 ALEXANDRIA			ART UNIT	PAPER NUMBER
	•		1773	· · · · · · · · · · · · · · · · · · ·
			DATE MAILED: 11/06/2003	17

Please find below and/or attached an Office communication concerning this application or proceeding.

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in 3	Application No.	Applic	ant(s)			
)	09/944,193	YAMAI	NAKA ET AL.			
Office Action Summary	Examiner	Art Un	it			
	Holly Rickman	1773				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 22 A	<u>ugust 2003</u> .					
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-fina	l. ·				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E Disposition of Claims	Ex parte Quayle, 19)35 C.D. 11, 453 O.G	. 213.			
4) Claim(s) 1-13,24,26,28,29 and 31 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13,24,26,28,29 and 31</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 N	terview Summary (PTO-41 otice of Informal Patent Ap ther:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The rejection of claims 1-9, 24, 26, and 28 under 35 U.S.C. 102(e) as being anticipated by Carey et al. (US 6280813) is withdrawn in view of Applicant's amendments.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The rejection of claims 10-13 under 35 U.S.C. 103(a) as being unpatentable over Carey et al. (US 6280813) is withdrawn in view of Applicant's amendments.
- 4. The rejection of claims 29 and 31 under 35 U.S.C. 103(a) as being unpatentable over Carey et al. (US 6280813) in view of Matsuda et al. (US 6197367) is withdrawn in view of Applicant's amendments.
- 5. Claims 1-13, 24, 26, 28-29, and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inomata et al. (US 6623875).

Inomata et al. teach a magnetic recording structure having a lower magnetic layer, a lower coupling intensifying region, a non-magnetic spacer, an upper coupling intensifying region

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and an upper magnetic layer. The reference teaches that the coupling intensifying layers have Co concentrations that are larger than that of the magnetic recording layers (col. 5, line 57 to col. 7, line 37; col. 8, lines 10-22). The reference fails to disclose a structure having a "ferromagnetic atom-rich" layer having a Co concentration of 62-83 % and wherein the ferromagnetic atom.

Given the teaching of the relative concentrations of Co in the coupling layers as compared to the magnetic recording layers, it would have been well within the level of ordinary skill in the art to determine a suitable Co concentration range for the coupling layers in order to achieve the desired degree of magnetization and thus, "coupling intensification."

Response to Arguments

- 6. Applicant's arguments filed 8/22/03 have been considered but are moot in view of the new ground(s) of rejection.
- 7. It is noted that US 6645646 and US 6645614 are cited as art of interest but copies of the patents were not available at the time of examination (scheduled publication date for each is 11/11/03).
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (703) 305-2642. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul J. Thibodeau can be reached on (703) 308-2367. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Holly Rickman Primary Examiner Art Unit 1773

hcr November 3, 2003